



**DAB DIGITAL RADIO WITH
FM/USB/SD/CD/MP3 PLAYER**

CCE203DAB

INSTRUCTION MANUAL

| Page | CONTENTS |
|-----------|---|
| 01 | Contents |
| 02 | Safety instructions |
| 03 | Installation |
| 05 | Using the detachable front panel |
| 06 | Wiring Diagram |
| 07 | Operations |
| 07 | Location and Function of Keys |
| 08 | General Operations |
| 10 | Radio Operations |
| 11 | RDS (Radio Data System) Operations |
| 12 | DAB Radio Operations |
| 13 | CD/MP3 Disc Operations |
| 14 | Mixed-CD Operations |
| 14 | AUX in Operations |
| 15 | USB Device Operations |
| 15 | SD/MMC Card Operations |
| 16 | Disc Notes |
| 17 | Trouble Shooting |
| 18 | Specifications |

Safety Instructions

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE ANY COVERS.
NO USER-SERVICEABLE PARTS INSIDE, REFER ANY SERVICING TO QUALIFIED SERVICE PERSONNEL.

IMPORTANT SAFETY INSTRUCTIONS

- Read and keep these instructions available for future reference.
- The unit must only be connected to a 12 Volt D.C. vehicle with a negative earth (ground) power supply.
- Ensure all wiring connections are properly made and insulated where required.
Never bridge or combine the speaker wire outputs.
When not using four speakers, use electrical tape to tape the ends of the unused speaker outputs to prevent a short circuit.
Never ground the negative speaker terminals to chassis ground.
Take great care not to short out any of the speaker connection wires to each other or to ground.
- Use only the parts provided with unit to ensure proper installation.
The use of unauthorised parts may cause malfunction.
- Consult with your dealer if installation requires the drilling of holes or modification to the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger in event of an emergency stop.
- If the angle of installation exceeds 30° from the horizontal, the unit may not give its optimum performance.
- Ensure the cooling fins on the rear of the unit are not covered, to ensure adequate air flow or cooling.
- The apparatus should not be exposed to dripping or splashing.
- Take care that foreign objects do not enter, or liquids are not spilled, into the case through any openings. If this should happen, refer to qualified service personnel before attempting to use.
- Playing at high volume can hinder the driver's concentration on traffic and road conditions and constitutes a safety hazard.



WEEE marking

"Information for the consumer"

Disposal of your old product

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.

Please make yourself aware of the local collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

e13

03 10248

This product complies with the Regulation of the European Common Market.



CAUTION: Invisible laser radiation when open and interlocks defeated.
Avoid exposure to beam.

The CD player is a Class 1 laser product.

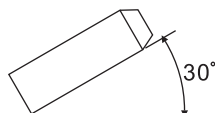
The device has a safety system that prevents dangerous laser rays from escaping from the device during normal use. In order to avoid injury to the eyes, never interfere with or damage the unit's security system.

CLASS 1 LASER PRODUCT

Installation

Notes:

- Choose the mounting location where the unit will not interfere with the normal driving function of the driver.
- Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and the system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance



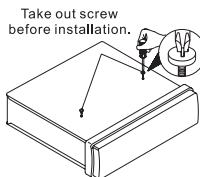
- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from the heater, or where it would be subject to dust, dirt or excessive vibration.

Din Front/Rear-Mount

This unit can be properly installed either from 'Front' (conventional DIN Front-mount) or 'Rear' (DIN Rear-mount installation, utilizing threaded screw Holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods.

Take Out Screw Before Installation

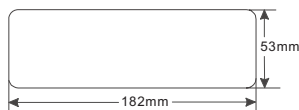
Before install the unit, please remove the two screws.



1. DIN FRONT-MOUNT (Method A)


Installation Opening

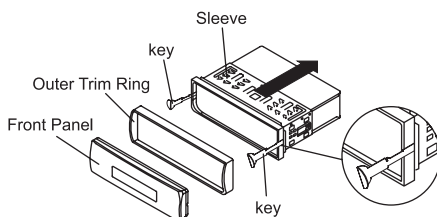
This unit can be installed in any dashboard having an opening as shown below:



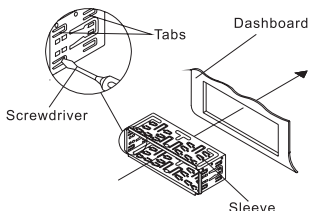
Installing the unit

Be sure you test all connections first, and then follow these steps to install the unit.

1. Make sure the ignition is turned off, and then disconnect the cable from the vehicle battery's negative (-) terminal.
2. Disconnect the wire harness and the antenna.
3. Press the  button on the front panel and remove the control panel (For details, refer to 'using the detachable front panel').
4. Lift the top of the outer trim ring then pull it out to remove it.
5. The two supplied keys release tabs inside the unit's sleeve so you can remove it. Insert the keys as far as they will go (with the notches facing up) into the appropriate slots at the middle left and right sides of the unit. Then slide the sleeve off the back of the unit.



6. Mount the sleeve by inserting the sleeve into the opening of the dashboard and bend open the tabs located around the sleeve with a screwdriver. Not all tabs will be able to make contact, so examine which ones will be most effective. Bending open the appropriate tabs behind the dashboard to secure the sleeve in place.

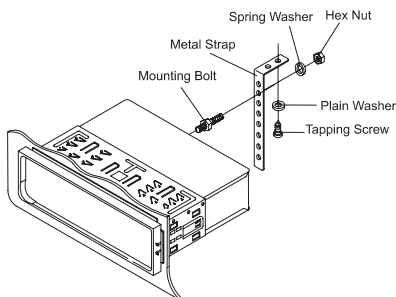


7. Reconnect the wire harness and the antenna and be careful not to pinch any wires or cables.

8. Slide the unit into the sleeve until it locks into place.

9. To further secure the unit, use the supplied metal strap to secure the back of the unit in place. Use the supplied hardware (Hex Nut (M5mm) and Spring Washer) to attach one end of the strap to the mounting bolt on the back of the unit. If necessary, bend the metal strap to fit your vehicle's mounting area. Then use the supplied hardware (Tapping Screw (5x25mm) and Plain Washer) to attach the other end of the metal strap to a solid metal part of the vehicle under the dashboard. This strap also helps ensure proper electrical grounding of the unit.

Note to install the short threading terminal of the mounting bolt to the back of the unit and the other long threading terminal to the dashboard.



10. Reconnect the cable to the vehicle battery's negative (-) terminal. Then replace the outer trim ring and install the unit's front panel (see the steps of 'to install the front panel').

Removing the unit

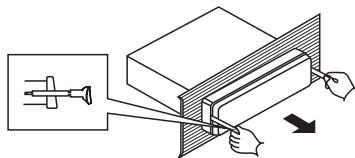
1. Make sure the ignition is turned off, and then disconnect the cable from the vehicle battery's negative (-) terminal.

2. Remove the metal strap attached the back of the unit (if attached).

3. Press the release button to remove the front panel.

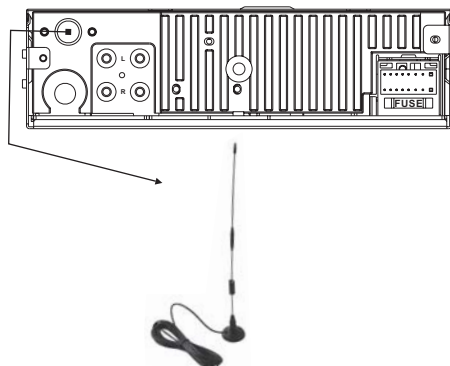
4. Lift the top of the outer trim ring then pull it out to remove it.

5. Insert both of the supplied keys into the slots at the middle left and right sides of the unit then pull the unit out of the dashboard.



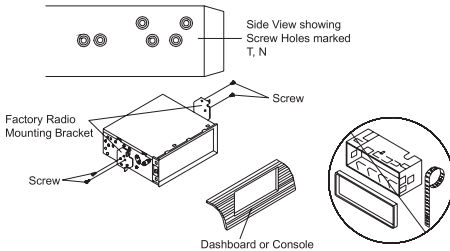
To install the DAB antenna

Position the DAB antenna cable in the dashboard and carefully screw the connector on the DAB antenna to the corresponding connector located at the back of the unit.



2. DIN REAR-MOUNT (Method B)

If your vehicle is a Nissan, Toyota, follow this mounting instruction. Use the screw holes marked T (Toyota), N (Nissan) located on both sides of the unit to fasten the unit to the factory radio mounting brackets supplied with your vehicle.



Fasten the unit to the factory radio mounting brackets. Align the screw holes on the bracket with the screw holes on the unit, and then tighten the screws (5x5mm) on each side.

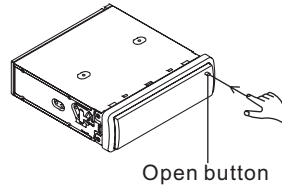
Note: the outer trim ring, sleeve and the metal strap are not used for method B installation.

Using The Detachable Front Panel

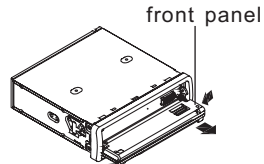
REMOVING AND PROTECTING DETACHABLE FRONT PANEL

The front panel of the unit may be removed as a theft deterrent. After removing the front panel, use the case provided to keep the front panel from getting damaged.

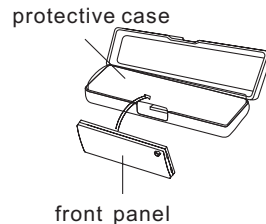
1. Press the OPEN button to flip down the front panel.



2. Grasp the right side of the front panel, then gently push the front panel towards the left side before pulling it out from the unit.



3. Store the front panel in the protective case provided for safe keeping.

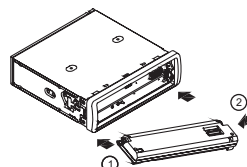


TO ATTACH THE FRONT PANEL

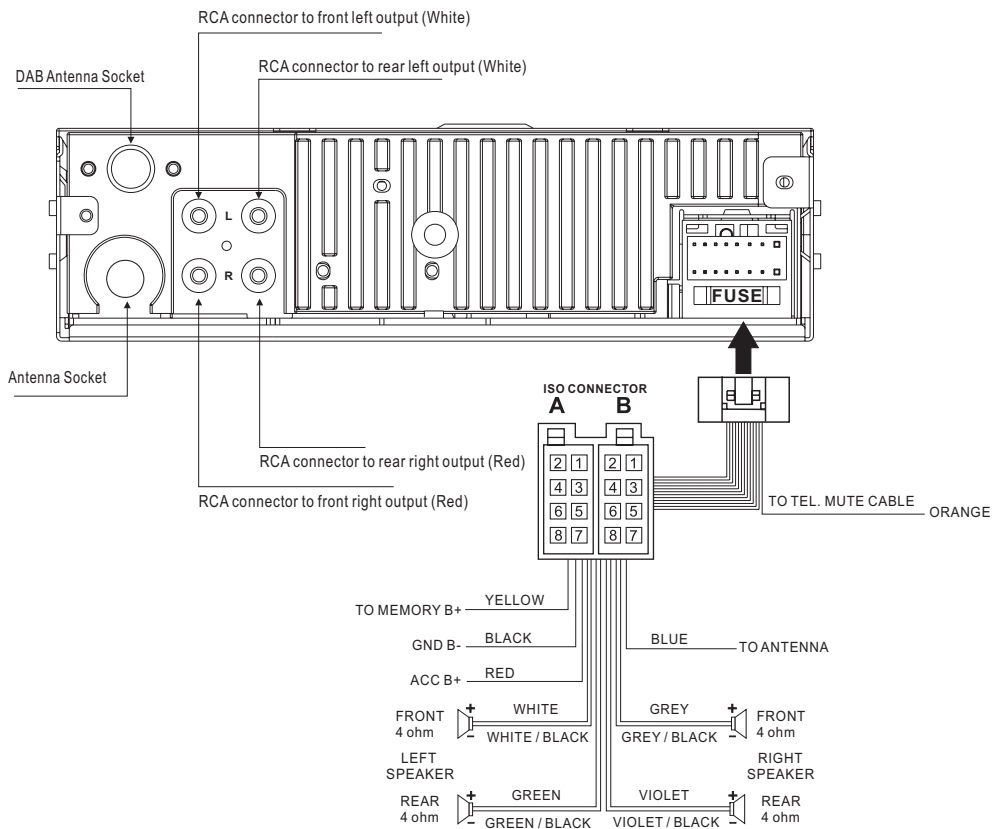
Hold the right side of the front panel with the plate facing down.

First attach the left side of the front panel to the unit by inserting the hole into the left holder.

Then slightly push it leftwards and attach the right side hole into the right holder. Finally push up the front panel.



Wiring Diagram



ISO connector:

Part A:

- A1: No Connect
- A2: No Connect
- A3: No Connect
- A4: Battery B+ (Yellow)
- A5: Antenna (Blue)
- A6: No Connect
- A7: Accessory (Red)
- A8: Ground B- (Black)

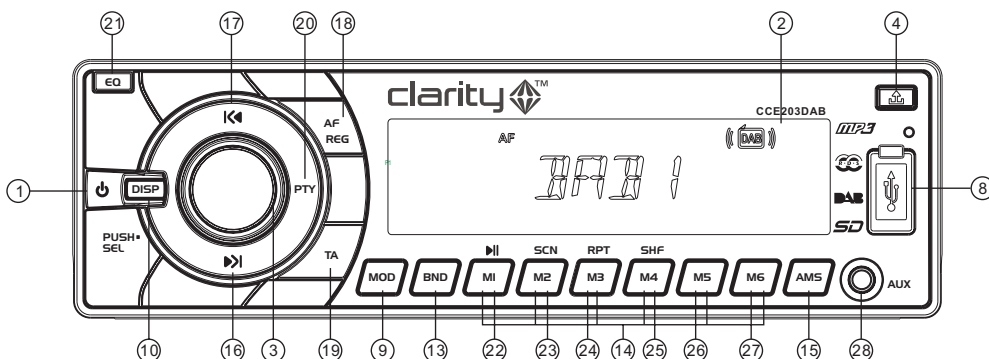
Part B:

- B1: Rear Right + (Violet)
- B2: Rear Right - (Violet/Black)
- B3: Front Right + (Grey)
- B4: Front Right - (Grey/Black)
- B5: Front Left + (White)
- B6: Front Left - (White/Black)
- B7: Rear Left + (Green)
- B8: Rear Left - (Green/Black)

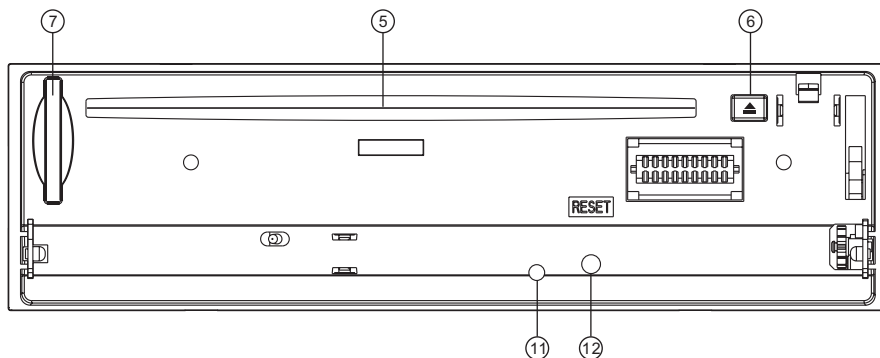
Operations

Location and function of keys

Front panel:



The car radio after removing the front panel:



Descriptions of Function Controls

- | | |
|---|--|
| (1) Power on/off (⏻) Button | (16) 9 / UP (▶▶) Button |
| (2) LCD display | Tune up, Seek up, next track, fast forward |
| (3) Encoder Volume Control/ SEL Button | (17) 8 / DOWN (◀◀) Button |
| (4) Open (⏏) Button | Tune down, Seek down, previous track, fast reverse |
| (5) Disc slot | (18) AF/REG Button |
| (6) Eject (⏏) key | (19) TA Button |
| (7) SD/MMC Memory Card Slot | (20) PTY Button |
| (8) USB Port | (21) EQ Button |
| (9) 7 / MODE Button | (22) 1 / Playing/Pausing (▶) Button |
| (10) 0 / DISP Button | (23) 2 / Scan(SCN) Playback Button |
| (11) Anti-theft LED Indicator | (24) 3 / Repeat(RPT) Playback Button |
| (12) Reset Button | (25) 4 / Shuffle(SHF) Playback Button |
| (13) Band/ LOUD Button | (26) 5 / Previous Folder Button |
| (14) Preset Station (1-6) Buttons | (27) 6 / Next Folder Button |
| (15) AMS(Auto-storage/ Preset memory Scan) Button | (28) AUX Input Jack |

General Operations

Reset the unit

The RESET button is to be activated for the following reasons:

- Initial installation of the unit when all wiring is completed.
- All the function buttons do not operate.
- Error symbol on the display.

1. Turn off the unit power.

2. Press the **OPEN** (⬆) button to flip down the front panel and remove it, then press the **RESET** button with a ballpoint pen or similar object to restore the unit to the original factory settings.

Note:

if you press **RESET** button, the unit can't work yet, please use a cotton swab soaked in isopropyl alcohol to clean the socket on the front panel.

Power on/off

In power off mode, switch on the unit by pressing any button except the **OPEN** (⬆) button and the **EJECT** (⬆) button or inserting a disc into the slot. When the system is on, press the **POWER** (⏻) button to turn off the unit.

Sound adjustment

- Rotate the **VOLUME/SELECT** button to adjust volume level.
- Press the **VOLUME/SELECT** button repeatedly to select the sound setting that you would like to adjust: volume, bass, treble, balance or fader. Rotate the **VOLUME/SELECT** button to adjust the level of the selected sound mode:

- VOL: from 00 to 100 (50 levels)
- BAS (bass) / TRB (treble): from -10 to +10
- BAL (Balance): 10L, 9L, ~, L=R, ~, 9R, 10R. Note: L = left, R = right.
- FAD (Fader): 10F, 9F, ~, F=R, ~, 9R, 10R. Note: F=front; R= rear.

Note:

In each mode, when the unit has not been adjusted for about 5 seconds, the current setting will be saved and it will return to the previous mode.

System setup menu

Press the **VOLUME/SELECT** button and hold for more than 2 seconds to access the

system setup menu mode, then press the **VOLUME / SELECT** button to select the menu item in sequence as follows:

“TA SEEK or TA ALARM” → “PI SOUND or PI MUTE” → “RETUNE L or RETUNE S” → “MASK DPI or MASK ALL” → “DAB-FM Y or DAB-FM N” → “BEEPS 2ND, BEEP ALL, BEEP OFF”

After selecting the desired menu item, rotate the **VOLUME/SELECT** button to make the adjustment.

“**TA SEEK or TA ALARM**” (search for traffic announcement/traffic announcement alarm)

- TA SEEK mode:

When a newly tuned station does not receive traffic information for 5 seconds, the radio retunes to next station which has a different PI and which broadcasts traffic information.

If, during the chosen retune time (30 seconds for a short retune or 90 seconds for a long retune), the unit can no longer receive the current station which was broadcasting traffic information, it will start to search for the next station that has the same PI.

If no station with the same PI is found after one search cycle, the radio will search for the next station broadcasting traffic announcements.

- TA ALARM mode:

Select this mode to switch off the automatic retune. The radio will then emit a double beep sound (ALARM).

If a newly tuned station does not broadcast any traffic information for 5 seconds, a beep can be heard.

If the unit can no longer receive the current station during the chosen retune time, a beep sound can also be heard.

If a newly tuned station has no RDS signal, the message “PI SEEK” disappears.

Note: TP: Traffic Program.

PI: Program Identification.

“PI SOUND or PI MUTE”:

In some regions, there is a possibility of having two different stations with the same frequency but different PI codes.

If “PI SOUND” is selected, radio will switch to the new station with a different PI for a

few seconds before switching back to the current station that was broadcast initially. If "PI MUTE" is selected, the radio will not broadcast the new station that is received.

"RETUNE L or RETUNE S" (long/short retune):

This function allows you to set the duration after which the automatic search for traffic information or a station with an identical PI should be carried out.

- **RETUNE L mode:** The automatic search will take place after 90 seconds.

- **RETUNE S mode:** The automatic search will take place after 30 seconds.

"MASK DPI or MASK ALL":

Any alternative frequency (AF) with a different PI or which does not broadcast an RDS signal that is strong enough will normally be masked when the PI is checked while the unit searches for an alternative frequency. The unit will not automatically go to this type of alternative frequency. It is possible that an AF which does not broadcast a strong enough RDS signal is a valid AF, but that the car radio wrongly considers it as a station with a different PI due to interference. For this reason, the unit offers the user an option (MASK DPI) which does not mask the AFs which do not broadcast a strong RDS signal.

- **MASK DPI mode:**

Only masks the alternative frequencies with a different PI.

- **MASK ALL mode:**

Masks alternative frequencies with a strong signal that have a different PI or which do not emit a strong enough RDS signal.

"BEEPS 2ND", "BEEP ALL", "BEEP OFF"

The car audio device is equipped with 3 beep tone modes.

- Beep 2nd mode: The beep sound will be heard when you hold down a button with a dual function, which activates the second function of this button.

- Beep on mode: The beep sound is on when any key is pressed.

- Beep off mode: The beep sound is disabled.

"DAB-FM Y", "DAB-FM N"

The CCE203DAB can switch between DAB and FM automatically, it allows you to set DAB-FM Y(Yes) or DAB-FM N(No).

- **DAB-FM Y** (default setting):

When the DAB signal of the current program is lost or becomes too weak, the radio will automatically switch to the FM band to the last FM station listen to. When the DAB signal level returns, the radio will automatically switch back to the original DAB program.

- **DAB-FM N:**

When the DAB signal of the current program is lost or becomes too weak, the radio will mute the audio until the DAB signal level returns.

Preset Equalizer

The car audio device is equipped with 4 preset equalizer modes. Press the **EQ** button to select one of the following EQ modes: "FLAT" → "CLASSICS" → "POP M" → "ROCK M" → "DSP OFF".

Loudness ON/ OFF

Press and hold the **BND/LOU**(LOUD) button to turn the loudness function on or off.

To select playback mode

In power on mode, press the **MODE** button repeatedly to select the different modes in the following sequence: RADIO, DAB, CD (with a disc inside the disc slot), USB(with USB device inserted), SD/MMC(with SD/MMC card inserted), AUX in mode.

Last position memory feature

- During disc, USB, SD/MMC card playback, if you turn off the unit and then switch on it, the unit will resume playing from the point that it was interrupted.

-During disc, USB, SD/MMC card playback, if you switch to other mode, and then return the previous mode again, the unit will resume playing from the point that it was interrupted.

INFORMATION DISPLAY

Press the **DISP** button repeatedly to display as follows:

- **When receiving an RDS station:**

In radio mode: CT -> PTY(Type of program)
-> PS (Name of the station) ->
FREQUENCY ->

In CD/USB/SD/MMC mode: CT-> PTY(Type of program) -> FREQUENCY -> PS -> Track number /Running time or other information

Note:

If the unit does not receive CT or PTY information, the display shows "NO CLOCK" or "PTY NONE".

- When receiving a non RDS station:

In radio mode: NO CLOCK -> PTY NONE -> PS NONE -> FREQUENCY ->

In CD/USB/SD/MMC mode: NO CLOCK -> PTY NONE -> FREQUENCY -> PS NONE -> Track number /Running time or other information

Note:

The selected information is displayed for 5 seconds, then the radio goes back to the first display mode after 5 seconds.

TEL Mute

The audio system automatically mutes whenever a telephone call comes in.

Note:

The function will not work if a cable is not connected to the car phone.

1. When a call comes in

When a call is received, 'TEL CALL' is displayed and all the unit functions are temporarily interrupted.

2. When the call ends

Hang up the phone.

'TEL CALL' disappears from the display. The unit returns to the previous state and the volume returns to the previous level.

Note:

When Tel Mute lead connected.

ESP Function

This unit has the electronic shockproof feature. So that if the unit skips due to rough road conditions, the playback of the disc will be uninterrupted.

Anti-theft LED Indicator

Designed as a theft deterrent, the red LED will flash when the unit is turned off and the front panel is removed.

Radio Operations**Switching to radio mode**

Press the **MODE** button to select the radio mode.

To select a radio band

In radio mode, Press the **BAND** button repeatedly to select one of the three radio broadcasting bands: -> FM 1 -> FM 2 -> FM 3 -> MW.

Auto/ Manual tuning**- Automatic search mode:**

Press the ►► or ◄◄ button briefly to launch the automatic search forwards or backwards. The message "SEARCH" appears on the LCD display. The radio will search up or down for a strong signal radio station within the current band. Press and hold the ►► or ◄◄ button until "MANUAL" appears on LCD display, it will change into manual searching mode.

- Manual search mode:

Press the ►► or ◄◄ button repeatedly to manually search upward or downward step by step for the desired radio station within the current band. For fast manual searching, press and hold the ►► or ◄◄ button. In manual search process, if neither of the both buttons have been pressed within 5 seconds, the radio will go to automatic search mode automatically. "AUTO" appears on the LCD display.

To store / recall a preset radio stations

You can store up to a total of 18 FM or 6 MW radio stations in the memory, manually or automatically.

- To store a station:

- Select a band (if needed)
- Select a station by ►► or ◄◄ buttons, refer to auto / manual tuning.
- Hold a Preset button (1-6) for at least 2 seconds.

- To recall a station:

- Select a band (if needed).
- Press a preset button (1-6) briefly to recall the stored station. In case of RDS mode, the strongest AF is selected after AF searching.

Auto store / Preset scan**- Preset scan:**

Press the **AMS** button briefly to scan each

preset station. If the field strength level is more than the threshold level, the radio will hold at this preset station for 5 seconds with sound output, then go to next station until all 6 FM stations are scanned, finally the radio will play at the preset station where scanning started. The preset station number on the LCD will flash during the process. Press the **AMS** again to stop preset scan.

- Auto store:

Press the **AMS** button for more than 2 seconds to start auto store. The radio will scan from the lowest frequency, and automatically store the 6 strongest stations into the preset memories. When auto store is complete, the radio will start a preset scan of the 6 stations which it has just stored.

RDS (Radio Data System) Operations

The RDS data are the PI, PS, TP, PTY, TA and AF data.

PI (Program identification): Code for identifying the radio station.

PS (Program service): Name of the radio station.

PTY (Program type): Type of program such as news, Pop music, sports etc.

TP (Traffic program): Code indicating a station broadcasting traffic information.

TA (Traffic announcement): Function allowing the broadcasting of traffic information.

AF (Alternative frequencies): Function allowing an automatic search for the best alternative frequency available.

SETTING AF MODE

Briefly press the **AF/REG** button to switch AF mode on or off.

When AF is switched on, "AF" appears on the LCD display.

If the reception becomes bad, "AF" will blink and the tuner will return to alternative frequencies.

When an emergency broadcasting is received, the message "ALARM" will appear on the LCD display.

The volume level will be automatically adjusted to the preset output level when the volume is set to a lower level.

Regional Program Operation

Press the **AF/REG** button for 2 seconds to switch the region mode on or off.

Some broadcasting stations change their program from normal broadcasting to regional broadcasting for a certain time period.

When region is on, the current listening program remains unchanged. When region is off, it allows the reception moved to the regional station.

Using PTY to select a program

The PTY function allows you to search for a particular program type.

To select a program type, press the **PTY** button. "POP M" (pop music) or "NEWS" will appear on the LCD display.

You can then select a program type using the preset buttons **1** to **6**.

The program types are divided into two groups: the music PTY group and the speech PTY group:

HINT:

When you choose **MUSIC PTY GROUP**, the **preset number buttons 1-6** correspond to the following programs:

| Preset number | Music PTY Group |
|---------------|--------------------------------------|
| 1 | POP M, ROCK M |
| 2 | EASY M, LIGHT M |
| 3 | CLASSICS, OTHER M |
| 4 | JAZZ, COUNTRY |
| 5 | NATION M (national music), OLDIES |
| 6 | FOLK M |

When you select the **SPEECH PTY GROUP**, the **preset numbered buttons** is shared as follows:

| Preset number | Speech PTY Group |
|---------------|-------------------------------|
| 1 | NEWS, AFFAIRS, INFO |
| 2 | SPORT, EDUCATE, DRAMA |
| 3 | CULTURE, SCIENCE, VARIED |
| 4 | WEATHER, FINANCE, CHILDREN |
| 5 | SOCIAL, RELIGION, PHONE IN |
| 6 | TRAVEL, LEISURE, DOCUMENT |

When you select a program type, the tuner will search for a station broadcasting this type of program. The tuner will stop searching if it finds the relevant program type. If the radio does not find a station broadcasting the type of program selected, the text "PTY NONE" is displayed for 5 seconds and the previous station is broadcast.

Listening to Traffic Announcement

It is possible to program the car radio so that it interrupts disc mode, radio mode, AUX mode or the current radio station when a traffic announcement is broadcast.

Briefly press the **TA** button to switch TA mode on or off. When TA mode is on, the unit automatically broadcasts available traffic announcements. To interrupt a traffic announcement without switching off the TA mode, briefly press the **TA** button. The radio will then return to the previous operating mode. Hold down the **TA** button to select "EON TA LOCAL" (EON local stations) or "EON TA DX" (EON distant stations).

- If you select "EON TA LOCAL", only traffic announcements from stations with strong signals will be emitted.

- If you select "EON TA DX", all traffic announcements received will interrupt disc mode, AUX in mode or radio mode.

DAB Radio Operations

DAB is the abbreviated form of the "Digital Audio Broadcasting". The biggest difference of the DAB and FM/ MW traditional broadcasting, besides the DAB digital radio has unparalleled anti-jamming capability, resistance to noise, electromagnetic wave propagation fading, suitable for high speed mobile reception etc advantages, it also provides close a CD-quality stereo sound, signal almost zero distortion.

Each digital radio stations only need to use a band, you can load all the radio channels, it is on optimizing energy, purifying electromagnetic space has a considerable effect. But digital technology signal in addition to being able to transfer audio information, you can load text, picture information.

Switching to DAB radio mode

Press the **MODE** button to turn on the DAB radio mode. The icon "" will appear on the LCD display.

To select a radio band

In DAB radio mode, press the **BAND** button repeatedly to select one of the three radio broadcasting bands:-> DAB 1-> DAB 2 -> DAB 3 ->.

To scan the DAB station

Press the **AMS** button briefly, the unit will automatically scan all the DAB stations, the text "DAB SCAN" will appear on the LCD display. When finished the scanning, all the scanned will be store automatically. If no broadcasts are found by the DAB scan, "NO FOUND" appears on the LCD display.

To browse and select the DAB station

Press the **PTY** button briefly to access the browsing mode of the DAB station.

Then rotate the **volume / select** button to browse the list of the DAB station. Press the the volume /select button to confirm your choice.

To select a DAB station

Press the **▶▶** or **◀◀** button briefly to select DAB station forwards or backwards.

To store / recall a preset radio stations

You can store up to a total of 18 DAB radio stations in the memory.

- To store a station:

- Select a band (if needed)
- Select a station by ►► or ◄◄ buttons.
- Press and hold a preset button (1-6) for at least 2 seconds.

- To recall a station:

- Select a band (if needed).
- Press a preset button (1-6) briefly to recall the stored station.

Information display

Press the **DISP** button repeatedly to display as follows:

Component name -> Clock -> DLS message (up to 128 character, 20 seconds time out) -> Program type (10 seconds time out) -> Ensemble name (10 seconds time out) -> Received signal strength (10 seconds time out) -> Current DAB band (10 seconds time out)

Note:

The items of DLS message, program type, ensemble name appears when it is available.

DLS: DAB can carry "radiotext" (in DAB terminology, Dynamic Label Segment, or DLS) from the station giving real-time information such as song titles, music type and news or traffic updates.

Ensemble: Various different services are embedded into one ensemble (which is also typically called a multiplex.)

You can store up to a total of 18 DAB radio stations in the memory.

To clear the DAB station memory

Press and hold the **EQ** button to clear all the DAB stations memory.

Automatically Switching between DAB and FM

The switch CCE203DAB will automatically switch to FM.

- When the DAB signal of the current program is lost or becomes too weak, the radio will automatically switch to the last FM station listened to.

- When the DAB signal level returns, the radio will automatically switch back to the original DAB program.

Note: This function can be disabled as described on page 9 "DAB-FM Y", "DAB-FM N".

CD/MP3 Disc Operations

Switching to CD/MP3 mode

1. If there is no CD/MP3 disc inserted in the player, press the **OPEN** (⬆) button on the front panel to flip down the front panel, then gently insert a CD/MP3 disc with the printed side facing up into the disc slot until you feel some resistance. The disc is drawn into the driver automatically. The CD/MP3 playback begins.

2. If a CD/MP3 disc is already inserted in the player, press **MODE** button to switch to the CD/MP3 mode.

Loading/Removing a Disc

1. Press the **OPEN** (⬆) button on the front panel to flip down the front panel and then insert a disc into the disc slot with the printed side facing upward, the player will play the disc automatically.

2. To eject the disc, press the **OPEN** (⬆) button on the front panel to flip down the front panel, then press the **EJECT** (⬆) button.

Playing/Pausing

During playback, press the ►|| button to interrupt the playback. Press again to resume the playback.

Playing the previous/ next track

- During playback, press the ►► button to play the next track. The track number shows on the LCD display.

The unit will automatically play the first track on the current disc when the last track of the current disc has been played.

- When played time of the current track or file is short, briefly press the ◄◄ button to play the previous track.

- When played time is long, press the ◄◄ button to play the current track from the beginning. The track number shows on the LCD display.

Playing forward and backward

During playback, press and hold the ►► or ◄◄ button to fast forward or fast reverse. Release the buttons when the desired location is found, and normal playback starts.

Go to the previous / next 10 track

During CD playback, press the **5** or **6** button to play the previous or next 10 track.

Go to the previous / next directory

During **MP3** playback, press the **5** or **6** button to select the previous or next directory. If the MP3 disc does not contain any directories, this function will not be available.

Introduction playback

You can play the beginning of every track for 10 seconds in sequence.

- In **CD/MP3** file playback, briefly press the **SCN** button to play the first 10 seconds of each track. The word "**S-SCN**" appears on the LCD display.

- In the **MP3** file playback, press and hold the **SCN** button to play the first 10 seconds of the tracks in the current folder.

The word "**D-SCN**" appears on the LCD display.

Press it again to stop scanning and play the current track.

Repeat playback

- In **CD/MP3** files playback, briefly press the **RPT** button to continuously play the current track. The word "**S-RPT**" appears on the LCD display.

- In the **MP3** file playback, press and hold the **RPT** button to play all the tracks repeatedly in the current folder. The word "**D-RPT**" appears on the LCD display.

Press again to stop repeat playback and resume normal playback.

Random playback

- In **CD/MP3** file playback, briefly press the **SHF** button to play all tracks of the disc in random sequence. The word "**S-SHF**" appears on the LCD display.

- In the **MP3** file playback press and hold the **SHF** button to play all the tracks in the current folder in random sequence. The word "**D-SHF**" appears on the LCD display. Press again to cancel random playing.

How to select a file in **MP3** mode:

There is one ways to access a file in **MP3** mode:

a) Press the **AMS** button once to access the track number search mode. The message "**MP3 T ***" will be shown on the LCD display and the "*" symbol will blink.

b) Rotate the **volume/select** button to select a file number.

Then press the **VOLUME/SELECT** button or **BAND (ENTER)** button to confirm and play the selected file.

c) You can also input the file number directly by pressing the corresponding buttons listed as below:

| Key | Corresponding number | Key | Corresponding number |
|-----|----------------------|-------------|----------------------|
| 1 | 1 | 6 | 6 |
| 2 | 2 | MODE or PTY | 7 |
| 3 | 3 | ⏮ or TA | 8 |
| 4 | 4 | ⏭ or AF | 9 |
| 5 | 5 | DISP or ⏻ | 0 |

Next press the **VOLUME/SELECT** button or **BAND (ENTER)** button to confirm and play the selected file.

Mixed-Mode CD Operations

This unit can play mixed-mode CD discs (discs containing both CD audio tracks and **MP3** files).

When you insert a mixed-CD disc into the disc slot, the unit starts to play the CD audio tracks. Most operations are the same as for CD/MP3 disc operation.

If you want to switch between CD audio tracks and **MP3** files or vice-versa, press and hold down the **5** or **6** button.

Aux In Operations

This system has an external input jack, so you can listen to music from external devices connected to this unit.

Press the **MODE** button to switch to the **AUX** mode on or off.

USB Operations

The CD/MP3 car radio is equipped with a USB port on the front panel of the unit, you can connect a USB stick through the USB port.

- Using the USB stick:

When you insert a USB stick through the port, the unit will search for the **MP3** files and start to play them automatically.

If you insert a disc into the disc slot while reading the USB stick, the unit will play the disc.

You can press **MODE** button to select USB mode.

Note:

- Use the USB adaptor cable, if necessary.
- The operations of playing **MP3** files in the USB is the same as the **MP3** operation described in the **CD/MP3** disc operations.

- When reading the USB stick, please don't touch or remove it.

- If following the instruction above, the unit can't read the file in the USB stick, please check if the device is in good condition, or take it out then insert it into the USB port once more.

- The main unit can only support the standard USB-memory device.

- USB MP3 player is not a standard which means different brand name or different models have their own standard.

So this product cannot support all MP3 players.

- When connecting an MP3 player and there is a normal battery in the player (non rechargeable battery), you should remove the battery from the MP3 player and then connect it to the USB port. Otherwise, it may cause battery burst.

- When reading a USB device, be sure not to remove it from the USB port (change mode beforehand).

SD/MMC Memory Card Operations

The CD/MP3 car radio is equipped with an SD/MMC card slot, you can play the **MP3** songs in the SD/MMC card a by the CD/MP3 car radio.

- Using the SD/MMC card:

When you insert a SD/MMC card into the memory card slot, the player will read the SD/MMC card automatically.

If you insert a disc into the disc slot while reading the SD/MMC card, the unit will play the disc.

You can press **MODE** button to select SD/MMC mode.

SD/MMC memory card playback operation is the same with the **CD/MP3** disc operations described above.

Note:

- When reading the memory card, please don't touch or take out the card.

- If following the instruction above, the unit can't read the card, please check if the card is in good condition, or take out the card and then insert it into the card slot once more.

Disc Notes

A. Notes on discs:

1. Attempting to use non-standard shape discs (e.g. square, star, and heart) may damage the unit. Be sure to use only 12cm round shape CD discs only for this unit.
 2. Do not stick paper or tape, etc., onto the label side or the recording side of any discs, as it may cause a malfunction.
- Dirty, dusty, scratched and warped discs will cause a malfunction.

B. Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs):

1. Be sure to use discs with following marks only for the unit to play:



2. The unit cannot play a CD-R and CD-RW that is not finalized. (Please refer to the manual of your CD-R/CD-RW recorder or CD-R/CD-RW software for more information on finalization process).
3. Depending on the recording status, conditions of the disc and the equipment used for the recording, some CD-Rs/CD-RWs may not be played on this unit (see *1).

*1: To have more reliable play back, please see following recommendations:

- a. Use CD-RWs with speed 1x to 4x and write with speed 1x to 2x.
- b. Use CD-Rs with speed 1x to 8x and write with speed 1x to 2x.
- c. Do not play a CD-RW which has been written more than 5 times.
- d. The car radio supports discs which comply with the ISO 9660 level 1 or level 2 format, or the Joliet or Romeo format.

C. Notes on MP3 files

1. When naming a MP3 file, be sure the file name extension is 'MP3'.
2. For a non-MP3 file, even though the file name extension is 'MP3', the unit cannot recognize it.

D. Handling and Cleaning

- Dirty, dusty, scratched and warped discs will cause malfunctions.
- Do not place stickers or make scratches on discs.

- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent from damage.
- Do not place discs in the following places:
 1. Direct sunlight.
 2. Dirty, dusty and damp areas.
 3. Near car heaters.
 4. On the seats or dashboard.

Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, Use a soft cloth slightly moistures with isopropyl (rubbing) alcohol. Never use solvents such as benzene, thinner or conventional record cleaners as they may damage the surface of the disc.

Note:

A disc may become somewhat scratched (although not enough to make it unusable) depending on the way it is handled and conditions in the usage environment. Note these scratches are not an indication of any problem with the player.



Do not touch the underside of the disc



Do not bend



Wipe the disc from center toward the outside edge

Trouble Shooting

The following chart will help in solving most problems that may occur. If you still have questions after going through the checklist, please consult your local customer service representative. Before going through this check list, refer the wiring and operating procedures.

| Symptom | Cause | Solution |
|---|---|---|
| No power | The car ignition switch have not turn on. | If the power supply is connected to the car accessory circuits, but the engine is not moving, switch the ignition key to "ACC". |
| | The fuse has been blown. | Replace a new one. |
| Disc can not be loaded or ejected. | Presence of CD disc inside the player. | Remove the disc from the player, and insert a new one. |
| | Inserting the disc in reverse direction. | Insert the CD with the label facing upward. |
| | The surface of CD is extremely dirty or has been scraped. | Clean the disc or try to replace a new one. |
| | Temperature inside the car is too high. | Cool off or until the ambient temperature return to normal. |
| | Condensation | Leave the player off for an hour or so, and then try again. |
| No sound | Volume is in minimum. | Adjust volume to a desired level. |
| | The wiring is not properly connected. | Check wiring connection. |
| Sound skips | The installation angle is more than 30°. | Adjust the installation angle less than 30°. |
| | The surface of CD is extremely dirty or has been scraped. | Clean the disc or try to replace a new one. |
| The operation keys do not work | 1. The built-in microcomputer is not operating properly due to noise. | 1. Press the RESET button to restore the program. |
| | 2. The front panel has not properly installed. | 2. Fixed the front panel into its place. |
| No radio reception. | The antenna cable is not connected. | Insert the antenna cable firmly into the antenna socket of this CD player. |
| In automatic search mode the radio does not stop at a transmitting station. | The transmission signals are too weak. | Select a radio station manually. |

Specifications

1. GENERAL

Power Supply Requirements

DC 12 Volts, Negative Ground

Chassis Dimensions

178(W)x160(D)x 50(H) mm

Tone Controls

- Bass (at 100 Hz) ± 10 dB

- Treble (at 10KHz) ± 10 dB

Maximum power output

4 x 40 watts

Power consumption

15 Ampere (max.)

2. CD PLAYER

Signal to Noise Ratio

> 55 dB

Channel Separation

> 40 dB

Frequency Response

40Hz - 18 KHz

Discs/files played

CD-DA, CD-R/RW/MP3

3. RADIO

DAB

Frequency Range

174 - 240 MHz

FM

Frequency Range

87.5 - 108 MHz

IF

10.7 MHz

Sensitivity (S/N=30dB)

4 μ V

Signal to Noise Ratio

55dB(mono)

Stereo Separation

30 dB (65dBu, 1KHz)

MW

Frequency Range

522 - 1620 KHz

IF

450 KHz

Note:

Design and specification are subject to change with notice

